PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 032/04081	FOR FURTHER ACTION as we	see Form PCT/ISA/220 Il as, where applicable, item 5 below.	
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/IL2004/001169 Applicant	26/12/2004	15/01/2004	
ALGOTEC SYSTEMS LTD.			
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant	
This International Search Report consists	of a total of sheets.	•	
T is also accompanied by	a copy of each prior art document cited in this	report.	
Basis of the report a. With regard to the language, the language in which it was filed, unli	international search was carried out on the basess otherwise indicated under this item.	sis_of.the_international application-in-the	
The international sthis Authority (Rul	e 23.1(b)).	ation of the international application furnished to	
b. With regard to any nucleo	tide and/or amino acid sequence disclosed	in the international application, see Box No. I.	
2. Certain claims were foun	id unsearchable (See Box II).	·	
3.	ing (see Box III).		
4. With regard to the title,	•		
the text is approved as sub	mitted by the applicant.		
the text has been establish	ed by this Authority to read as follows:		
•			
5. With regard to the abstract,			
X the text is approved as subm	nitted by the applicant.		
the text has been established	d, according to Rule 38.2(b), by this Authority the date of mailing of this International search	as it appears in Box No. IV. The applicant report, submit comments to this Authority.	
. With regard to the drawings,			
_	lished with the abstract is Figure No7		
as suggested by the			
	authority, because the applicant failed to sugge		
as selected by this A b. none of the figures is to be as	uthority, because this figure better characteriz	es the invention.	
b none of the figures is to be pre-	ublished with the abstract.		

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No PCT/IL2004/001169

A CLAS	CICIOATION OF OUR ITEMAN			
ÎPC 7	SIFICATION OF SUBJECT MATTER G06T7/60		• .	
	to International Patent Classification (IPC) or to both national clas	sification and IPC		
	SSEARCHED	•		
IPC /	·			
	ation searched other than minimum documentation to the extent th		·	
Electronic of	data base consulted during the International search (name of data	base and, where practical, sea	rch terms used)	
₹	iternal, WPI Data, PAJ, INSPEC, IBN			
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the	relevant nacconce		
	The state of the s	Televant passages	Relevant	to claim No.
A	LI R ET AL: "Combining front p with shape knowledge for accura curvilinear modeling" MEDICAL IMAGE COMPUTING AND COMPUTER-ASSISTED INTERVENTION	MICCAI	1-72 86-9	-
	2003. 6TH INTERNATIONAL CONFERE PROCEEDINGS. PART II (LECTURE N COMPUT. SCI. VOL. 2879) SPRINGE BERLIN, GERMANY, 2003, pages 66 XP002325788 ISBN: 3-540-20464-4 the whole document	OTES IN R - VERLAG		
		-/		
X Furthe	r documents are listed in the continuation of box C.	Patent family member	ers are listed in annex.	
A" document consider document which is contation of the mentage of the contage of	cannot be considered novel or cannot be considered to involve an invention of cited to establish the publication date of another or other special reason (as specified) It referring to an oral disclosure, use, exhibition or earns It published prior to the international filting date but in the priority date claimed "En document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "En document member of the same patent family		t e one the	
	Date of mailing of the international search 28 April 2005 Date of mailing of the international search report 1 11. 2005			
	ing address of the ISA	Authorized officer		
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Herter, J		
		<u> </u>		1

INTERNATIONAL SEARCH REPORT

International Application No PCT/IL2004/001169

SETHIAN J A: "Level set methods and fast marching methods" [Online] 1999, CAMBRIDGE UNIVERSITY PRESS,	Relevant to claim No.
marching methods" [On]ine]	r
XP002325674 Retrieved from the Internet: URL:http://math.berkeley.edu/~sethian/Book s/sethian_book.ps> [retrieved on 2005-04-20] the whole document	86-94
DESCHAMPS T ET AL: "Fast extraction of minimal paths in 3D images and applications to virtual endoscopy" MEDICAL IMAGE ANALYSIS, OXFORD UNIVERSITY PRESS, OXOFRD, GB, vol. 5, 2001, pages 281-299, XP002904305 ISSN: 1361-8415 the whole document	1-72, 86-94
COHEN L D ET AL: "GLOBAL MINIMUM FOR ACTIVE CONTOUR MODELS: A MINIMAL PATH APPROACH"	1-72, 86-94
INTERNATIONAL JOURNAL OF COMPUTER VISION, KLUWER ACADEMIC PUBLISHERS, NORWELL, US, vol. 24, no. 1, August 1997 (1997-08), pages 57-78, XP000703576 ISSN: 0920-5691 cited in the application the whole document	
WINK O ET AL: "3D MRA CORONARY AXIS DETERMINATION USING A MINIMUM COST PATH APPROACH" MAGNETIC RESONANCE IN MEDICINE, ACADEMIC PRESS, DULUTH, MN, US, vol. 47, no. 6, June 2002 (2002-06), pages 1169-1175, XP001170393 ISSN: 0740-3194 the whole document	1-72, 86-94
MADDAH MAHNAZ ET AL: "Efficient center-line extraction for quantification of vessels in confocal microscopy images" MEDICAL PHYSICS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 30, no. 2, February 2003 (2003-02), pages 204-211, XP012011984 ISSN: 0094-2405 the whole document	1-72, 86-94

International application No. PCT/IL2004/001169

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-72, 86-94
Remark on Protest The additional sparch toos were accomposited by the spatiage to
The additional search lees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-72,86-94

centerline finding for a tubular tissue in a medical image data set

2. claims: 73-80

segmentation of an organ in a medical data set

3. claims: 81-85

propagation fo a parametrization in a medical data set